

# SRNDT(I)/UPR Series

## Maritime/Navy Line

### Most Rugged, Flexible Power Conditioner Available

### Top Selling Series

This series of UPS is Power Factor Corrected (PFC) on the input to near unity. Therefore, when non-linear loads requiring apparent power are present, only real power is reflected on the input utility line. This ensures efficient use of electricity and preventing harmful load harmonics from re-entering your electrical system.

#### TRUE ON-LINE, DOUBLE-CONVERSION TECHNOLOGY

Unlike Standby (Off-Line) and Line-Interactive UPS products which only work part-time, this True On-Line design provides power 100% of the time. The design provides a precise, digitally processed, output sine wave synthesized by an internal microprocessor.

#### RELIABILITY

NOVA Power Solutions delivers power quality in harsh environments ranging from the arctic to the desert, as well as on and under the sea. Our products are designed and manufactured with long-standing performance particularly suited for rigorous applications.

#### LIFECYCLE

NOVA Power Solutions provides maximum lifecycle benefits from design through sustainment. Our focus on quality and efficiency results in reduced costs and becomes a concentrated value to our customers over the course of an extensive product lifecycle.

#### PRODUCT SUPPORT

NOVA Power Solutions delivers award winning technical support, customer service, and expert knowledge that provides unsurpassed power protection to mission-critical electronics throughout the world.

#### KEY FEATURES:

- Ruggedized COTS Design
- MIL-STD 1399, Section 300B
- True On-Line design
- Electrically isolated input
- 5x Inrush current limit
- PVC-free internal wiring
- Effective hold-up time without batteries (UPR)
- Remote load control - optional
- Battery backup runtime options available
- Customizable to fit your specific application and requirements

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POWER SOLUTIONS, INC.



## Product Series Datasheet



#### SELECT CAPABILITIES:

- EMI Suppression Technologies
- Inverter powers load continuously
- Ruggedized steel and lightweight aluminum chassis available
- Dipole breaker on front panel
- Ruggedized internal structure
- Cold Start feature
- Auxiliary battery trays available for additional run time
- Accepts a wide variety of slide configurations
- Fits most 19" rack applications
- Optional SNMP Network Agent
- Optional Auto-Sense Wide Voltage Input
- Many input & output connector configurations available

# Product Series Overview

## BENEFITS:

- Power Factor Corrected
- True On-Line, Sine wave Output
- Designed for non-linear loads
- Dipole circuit breaker
- Ruggedized internal structure
- Heavy-duty side-mounts fit standard slide patterns
- Auxiliary Battery input connector
- Rear mounted ground stud
- RS-232 Communication & Open Collector Signal Ports
- Automatic Bypass available
- Auto-Wide Voltage Input option

### Sold Exclusively through:

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ELECTRICAL								
Power Factor Corrected	IAW MIL-STD-1399, Section 300B							
Input Voltage <sup>1</sup>	115/220VAC +35%/-20% (without Battery)							
Input Frequency	45-65Hz							
Output Voltage	120VAC ± 3%							
Output Frequency	60Hz (standard), 50Hz, or Line Sync (software select)							
Crest Factor Ratio (typical)	Up to 4.8:1 (@50% Load) Up to 3.2:1 (@75% Load) Up to 2.4:1 (@100% Load)							
Harmonic Distortion	5% Max. THD (@80% Non-linear load)							
Dynamic Response	±4% for 100% Step Load Change, 500µs Recovery Time							
Overload	110% for 10 minutes; 200% for 50ms							
Efficiency	85% (@ full load)							
UPS Protection	Input and Output Short Circuit; Input and Output Overload; Low-Voltage Battery Cut-off							
ENVIRONMENTAL								
Operating Temperature	32°F to 122°F (0°C to 50°C)							
Humidity	0% to 95% Non-condensing							
Altitude	Sea Level to 10,000 Feet							
Audible Noise	39-42 dBA at Five Feet							
MECHANICAL								
Cooling	Low Velocity, Temperature Controlled Reversible Forced Air							
Airflow	Front to Rear (Rear to Front also available)							
Installation	Front Faceplate							
Battery	Sealed Rechargeable Lead-Acid (non-hazardous, non-spillable)							
Input	CPC 17 Locking Inlet; 6 Foot (minimum) power cord with NEMA Type 5-15P or 5-20P plug							
Output <sup>1</sup>	CPC, NEMA, Locking NEMA, MIL SPEC, Terminal Block, IEC,							
STANDARDS								
	UL 1778 design; Mil-Std 1399 Sec. 300B, 167-1A, 901D, 1474D <sup>2</sup> & most elements of 810G & 461F (in a properly shielded & isolated rack) as applicable to shipboard environments							
MTBF	In Excess of 100,000 Hours (based on service records)							
CONTROLS AND INDICATORS								
Sequenced LEDs	Battery Level, Load Level							
Single LED	AC Input, Inverter On, Bypass On, On Battery, Fault, Cold Start, AC Output, Replace Battery							
Front Panel Controls	System On/Off, AC Input On/Off, Cold Start, Fault Silence, Battery Test, AC Output On/Off							
Audible Alarms	Utility Interrupt, Inverter Failure, Overload, Low Battery, Self-test							
RS232 Data Interface (DB-25F):	Full Interactive, Remote Computer Monitoring and Control of UPS Functions. Compatible with Megatech & SEC protocols							
Open-Collector (DB-25F):	Allows Alarm Function Monitoring							
Optional SNMP Interface (RJ45):	Allows Full Control and Monitoring Over Network Connection. Compatible with OpenView™, NetView™ and CA Unicenter™ & Other UPS Software							
OPTIONS								
Others	Please contact us to discuss all options							
Part Number	Nominal Apparent Power (VA)	Actual Output Power (W)	Input Voltage	Output Voltage	Internal Battery Y or N	Can provide External Battery Backup Y or N	Dimensions (H x W x D)	Approximate Weight (lbs)
UPS1-1.25K-1G-SRNDTI	1250	875	115VAC	120VAC	Yes	Yes	5¼" x 19" x 23"	50
UPS1-1.5K-1G-SRNDTI	1500	1050	115VAC	120VAC	Yes	Yes	5¼" x 19" x 23"	50
UPS1-2K-1G-SRNDTI	2000	1400	115VAC	120VAC	Yes	Yes	5¼" x 19" x 23"	60
UPS1-2.4K-1G-SRNDTI	2400	1680	115VAC	120VAC	Yes	Yes	5¼" x 19" x 23"	85
UPS1-4K-1G-SRNDTI	4000	3600	115VAC	120VAC	No	Yes	7" x 19" x 23"	130
UPS1-5K-1G-SRNDTI	5000	4500	115VAC	120VAC	No	Yes	7" x 19" x 25"	130

Input and output can be modified to the following ranges:  
 115VAC (100, 110, 115, 117, 120, 125)  
 230VAC (220, 230, 240)

The listed part numbers can be converted to UPR (Power supplies without batteries).  
 Total weight would reduce by 40 lbs if it is a UPR unit.  
 Isolation transformer can be requested to be removed from the unit during the ordering process.